

# ABSTRACT

An electrostatic suction type fluid discharge device supplies a drive voltage from a power source between a nozzle  
5 and an insulating substrate, so as to supply an electric charge to a discharge material supplied into the nozzle. As a result, the discharge material is discharged from the nozzle hole onto the insulating substrate. The diameter of the hole of the nozzle falls within the range between  $\phi 0.01\mu\text{m}$  and  $\phi 25\mu\text{m}$ , the power  
10 source outputs, as the drive voltage, a bipolar pulse voltage that alternates between positive and negative and has a frequency of not less than 1Hz.